

ABSTRACT

AUTO-NEGOTIATION OF TRANSCEIVER ROLES IN
COMMUNICATION SYSTEMS

5 The present invention allows a transceiver unit to freely and
automatically choose whether it will operate as a central unit or as a remote
unit, depending on the capabilities of the peer transceiver unit, which it is
connected to.

10 The transceiver unit listens first to any signal the peer may
transmit to initiate the handshake procedure. Such a signal would de-facto
identify the peer as a remote unit or as a central unit and would allow the
transceiver unit to select the appropriate role. If no signal is detected, the
transceiver unit tries to initiate the handshake procedure and waits for the
corresponding signal from the peer.

15 In a first embodiment, the transceiver unit tries to initiate the
handshake procedure as a remote unit only.

In a second embodiment, the transceiver unit tries to initiate the
handshake procedure both as a central unit and as a remote unit.